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A READING LIST ON SCIENTIFIC AND INDUSTRIAL RESEARCH AND THE SERVICE OF THE CHEMIST TO INDUSTRY

By Clarence Jay West

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INTRODUCTION

The interest in research is evidenced by the number of articles listed in the following pages. The popular classification into 'scientific' and 'industrial' research has been adopted, though the distinction between the two is far from being a sharp one. Industrial research is simply the application of established scientific principles and fundamentals to industry. The broader the scientific training of an industrial research worker, the greater are his chances for success in his chosen field of application.

The recent years have focused attention upon the value of research, pure and applied. The purpose of the following list is to invite the men who are already in the field and those about to engage in research to read, not only that they may learn of the results achieved by science but also that they may find the true spirit of research and realize the opportunity which opens up all around them to contribute to the betterment of the world in which they live.

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ABBREVIATIONS USED

Agr. and Mechan. College of Texas.	Agricultural and Mechanical College of Texas.
Am. Gas Eng. J.	American Gas Engineering Journal.
Am. Gas Light J.	American Gas Light Journal.

Am. Ideals. American Ideals.
Am. J. Sci. American Journal of Science.
Am. Mach. American Machinist.
Am. Mag. American Magazine.
Am. Silk J. American Silk Journal.
Am. Soc. Testing Materials. Proc. American Society for Testing Materials. Proceedings.
Ann. Am. Acad. Political Social Sci. American Academy of Political and Social Science. Annals.
Aust. Min. Stand. Australian Mining Standard.
Blast Furnace. Blast Furnace and Steel Plant.
British Rev. British Review.
Bull. Am. Inst. Min. Eng. Bulletin of the American Institute of Mining Engineers.
Bull. Imp. Inst. Bulletin of the Imperial Institute.
Can. Chem. J. Canadian Chemical Journal.
Can. Engr. Canadian Engineer.
Can. Lumberman. Canadian Lumberman.
Can. Mag. Canadian Magazine.
Can. Min. J. Canadian Mining Journal, The.
Cassier's Mag. Cassier's Magazine.
Chem. Eng. Chemical Engineer, The.
Chem. Met. Eng. Chemical and Metallurgical Engineering.
Chem. News. Chemical News.
Chem. Trade J. Chemical Trade Journal and Chemical Engineer.
Chem. Weekblad. Chemisch Weekblad.
Chem. World. Chemical World.
Chem. Ztg. Chemiker-Zeitung.
Color Trade J. Color Trade Journal.
Contemp. Contemporary.
Contract Rec. Contract Record and Engineering Review.
Cornhill Mag. Cornhill Magazine.
Cur. Lit. Current Literature.
DuPont Mag. Du Pont Magazine.
Ecl. Engineering. Eclectic Engineering Magazine.
Educ. Rev. Educational Review.
Elec. R. and W. Elecn. Electric Review and Western Electrician.
Elec. Rev. Electrial Review.
Elec. Ry. J. Electrical Railway Journal.
Elec. W. Electrical World.
Elecn. Electrician, The.
Elecn. and Mechanic. Electrician and Mechanic.
Electrochem. Met. Ind. Electrochemical and Metallurgical Industry.
Eng. Education. Engineering Education.
Eng. Mag. Engineering Magazine, The.
Eng. N. Engineering News-Record.
Eng. Rec. Engineering Record.
Eng. Rev. English Review.
Eng. and Contr. Engineering and Contracting.
Fortn. Fortnightly.
Gas J. Gas Journal.
Gen. Elec. R. General Electric Review.

Harper W. Harper's Weekly.
Harvard Graduate Mag. Harvard Graduates' Magazine.
Heat. and Ven. Heating and Ventilating Magazine.
Ill. Agr. Expt. Sta. Circular. University of Illinois Agricultural Experiment Station. Circulars.
Illum. Eng. Illuminating Engineer.
Ind. Independent.
Ind. chim. Industrie chimique.
Ind. chim. min. met. Industria chimica, minera e metallurgica.
Ind. Management. Industrial Management.
Int. Marine Eng. International Marine Engineering.
8th Intern. Cong. Appl. Chem. 8th International Congress of Applied Chemistry.
Iron Trade Rev. Iron Trade Review, The.
Iron and Steel Inst. Iron and Steel Institute.
J. Am. Ceram. Soc. Journal of the American Ceramic Society.
J. Am. Chem. Soc. Journal of the American Chemical Society.
J. Am. Pharm. Assn. Journal of the American Pharmaceutical Association.
J. Chem. Soc. Journal of the Chemical Society.
J. Educ. Journal of Education.
J. Eng. Club, Phila. Journal of the Engineers Club of Philadelphia.
J. Eng. Inst. Canada. Journal of the Engineering Institute, Canada.
J. Franklin Inst. Journal of the Franklin Institute.
J. Ind. Eng. Chem. Journal of Industrial and Engineering Chemistry.
J. Inst. E. E. Journal of the Institute of Electrical Engineers.
J. Inst. Metals. Journal of the Institute of Metals.
J. Iron Steel Inst. Journal of the Iron and Steel Institute.
J. Roy. Soc. Arts. Journal of the Royal Society of Arts.
J. Roy. Soc. New South Wales. Journal of the Royal Society New South Wales.
J. Sci. Journal of Science.
J. Soc. Chem. Ind. Journal of the Society of Chemical Industry.
J. Soc. Dyers and Colourists. Journal of the Society of Dyers and Colourists.
J. Textile Inst. Journal of the Textile Institute.
J. Utah Soc. Engr. Journal of Utah Society of Engineers.
J. Wash. Acad. Sci. Journal of the Washington Academy of Sciences.
J. West Scot. Iron Steel Inst. Journal West of Scotland Iron and Steel Institute.
J. West. Soc. Eng. Journal of the Western Society of Engineers.
Kolloid-Z. Kolloid-Zeitschrift.
La. Planter. Louisiana Planter.
Lit. Digest. Literary Digest.
Liv. Age. Living Age.
Mach. Machinery.
Man. Rec. Manufacturing Record.
Mech. Eng. Mechanical Engineering.
Met. Chem. Eng. Metallurgical and Chemical Engineering.
Metal Ind. Metal Industry.
Min. Eng. Rec. Mining and Engineering Record.

Min. Sci. Press. Mining and Scientific Press.
Moody. Moody's Magazine.
Nat. Conf. City Govt. National Conference on City Government.
Nat. Rev. National Review, The.
N. E. Coast Instn. Engr. and Shipbuilders. North Eastern Coast Institution of Engineers and Shipbuilders.
No. Am. North American.
North American Rev. North American Review.
Oil and Color J. Oil and Color Journal.
Oil, Paint and Drug Rep. Oil, Paint and Drug Reporter.
Paper Makers' Mo. J. Paper Makers' Monthly Journal.
Pharm. J. Pharmaceutical Journal and Pharmacist.
Pop. Sci. Mo. Popular Science Monthly.
Proc. Am. Inst. E. E. Proceedings of the American Institute of Electrical Engineers.
Proc. Am. Inst. Min. Eng. Proceedings of the American Institute of Mining Engineers.
Proc. Am. Min. Congr. Proceedings of the American Mining Congress.
Pulp Paper Mag. Can. Pulp and Paper Magazine of Canada.
Quart. Rev. Quarterly Review.
Queens Q. Queen's Quarterly.
R. of Rs. Review of Reviews.
Rev. gén. chim. Revue générale de chimie pure et appliquées.
Rev. Sci. Revue scientifique.
Ry. Age. Railway Age.
Ry. Mech. Eng. Railway Mechanical Engineer.
Ry. Rev. Railway Review.
Sat. Evening Post. Saturday Evening Post.
Sci. Am. Scientific American.
Sci. Am. S. Scientific American Supplement.
Sci. Monthly. Scientific Monthly.
Sci. Progress. Science Progress.
Sibley J. Sibley Journal of Engineering.
Stone & Webster Pub. Service J. Stone and Webster's Public Service Journal.
Tech. Quart. Technology Quarterly.
Tech. Rev. Technological Review.
Tech. World. Technical World Magazine.
Textile Inst. J. Textile Institute Journal.
Textile Mfg. J. Textile Manufacturer's Journal.
Times Eng. Suppl. Times Engineering Supplement.
Trans. Am. Ceram. Soc. Transactions of the American Ceramic Society.
Trans. Am. Electrochem. Soc. Transactions of the American Electrochemical Society.
Trans. Am. Inst. Chem. Eng. Transactions of the American Institute of Chemical Engineers.
Trans. Am. Soc. Mech. Eng. Transactions of the American Society of Mechanical Engineers.
Trans. Eng. Ceram. Soc. Transactions of the Ceramic Society, England.
Trans. Roy. Can. Inst. Transactions of the Royal Canadian Institute.
U. S. Naval Inst. Proc. United States Naval Institute Proceedings.

Univ. Chicago Mag. University of Chicago Magazine.
Univ. Mich. Bull. University of Michigan Bulletin.
Univ. Toronto Press. University of Toronto Press.
W. Soc. E. J. Western Society of Engineers Journal.
Westminster Rev. Westminster Review.
Z. angew. Chem. Zeitschrift für angewandte Chemie.

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